In the Claims

1. (Currently amended) An apparatus for the control of the temperature of a medium within a space by utilizing a temperature-modifying device, said apparatus comprising:

a controller connected for controlling a thermal output of said temperature-modifying device to achieve said desired temperature, and

an interface connected for providing information to and from said controller, said interface having at least one a substantially linearly moveable member with at least one separate positions for setting at least one programa plurality of programs within said programmable controller and a distinct position for running said temperature-modifying device.

- 2. (Original) The apparatus of Claim 1, wherein said interface further includes a position for setting a clock for use with said program.
 - 3. (Canceled)
- 4. (Currently amended) The apparatus of Claim 1 [[3]], wherein said plurality of programs include one or more selected from the group consisting of a weekday program, a weekend program, and a daily program.
- 5. (Original) The apparatus of Claim 1, wherein said controller further comprises an implementing circuit, a temperature comparitor, and a memory.

- 6. (Original) The apparatus of Claim 5, wherein said implementing circuit, said temperature comparitor, and said memory incorporate an integrated circuit having a microprocessor and a programmable memory chip.
- 7. (Original) The apparatus of Claim 1, wherein said interface further comprises a display.
- 8. (Previously presented) The apparatus of Claim 7, wherein said display incorporates an LCD.
- 9. (Original) The apparatus of Claim 1, wherein said temperature-modifying device is one or more selected from the group consisting of an HVAC system, a geothermal system, a gas furnace, a natural gas furnace, an electric furnace, a gas water heater, and an electric water heater.
- 10. (Currently amended) An apparatus for the control of the temperature of a medium within a space by utilizing a temperature-modifying device, said apparatus comprising:
- a logic circuit for comparing an existing temperature of said medium to a temperature desired to be achieved of said medium, and controlling a thermal output of said temperature-modifying device to achieve said desired temperature of said medium;

a memory for storing information received from said logic circuit;

an interface connected for inputting information to said logic circuit, said interface including at least one a substantially linearly moveable member having at least a first position for

setting a program separate positions for setting a plurality of programs within said logic circuit, a second position for setting a clock for use with said program within said logic circuit, and a third position for running said temperature-modifying device; and

a display for displaying information processed by said logic circuit.

- 11. (Canceled)
- 12. (Canceled)
- 13. (Currently amended) The apparatus of Claim 10 [[12]], wherein said plurality of programs include one or more selected from the group consisting of a weekday program, a weekend program, and a daily program.
- 14. (Original) The apparatus of Claim 10, wherein said logic circuit comprises a microprocessor.
 - 15. (Original) The apparatus of Claim 10, wherein said display incorporates an LCD.
- 16. (Original) The apparatus of Claim 10, wherein said temperature-modifying device is one or more selected from the group consisting of an HVAC system, a geothermal system, a gas furnace, a natural gas furnace, an electric furnace, a gas water heater, and an electric water heater.

17. (Previously presented) A thermostat for the control of the temperature of a medium within a space by utilizing a temperature-modifying device comprising:

a sensor for sensing ambient temperature;

a microprocessor for receiving said ambient temperature from said sensor and comparing said ambient temperature to a set point temperature, said microprocessor having an output for sending an output signal to said temperature-modifying device based upon said comparison;

an interface connected for inputting information to said microprocessor, said interface including a substantially linearly moveable member having more than one position for setting a plurality of programs within said microprocessor, and an additional position for running said temperature-modifying device; and

a display for displaying information received from the microprocessor.

- 18. (Original) The thermostat of Claim 17, wherein said plurality of programs include one or more selected from the group consisting of a weekday program, a weekend program, and a daily program.
- 19. (Original) The thermostat of Claim 17, wherein said temperature-modifying device is one or more selected of HVAC system, a geothermal thermal system, a gas furnace, a natural gas furnace, an electric furnace, a gas water heater, and an electric water heater.